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ELSY



New control for your pouring machines



EASYsa has more than 20 years experience in the development, manufacturing and support of pouring systems for the largest foundries in the world.

EASYsa has done the software development, the integration and the setting-up for Ed. Mezger AG and Mecana AG for more than 30 pouring machines around the world.

EASYsa has collaborated closely with Fritsch Service and supports now all customers for the mechanical parts as well.

With its multi-year experience, **EASYsa** is able to support customers for maintenance, services, spare parts, software modifications and complete control updates.

The existing controls of the pouring machines become quite old. **EASYsa** has chosen to respond to the market needs with a complete redesign of the system.

The control of the pouring machine is replaced by an actual and modern technology, based on standard components, perpetuating the machine operation and reducing your dependency on old components which are difficult to supply.

By performing an update on your installation, the operations, principles and mechanical parts which you know and which are working well are kept.

The maintenance works will be quick and easy for you, because you know already the machine.

Identical basic functionalities of the actual installation with new sophisticated algorithms will offer you a better control of the pouring and improve the overall quality of the poured molds.

The Numerical Pouring Control Unit, **NPCU**, is the new module developed by our engineers to complete the full set of controls of the installation and as result, ensures the **quality** of the pouring.

Machines already equipped with the new control

<u>Country</u>	<u>Type</u>	<u>Machine construction</u>	<u>Control update</u>
Sweden	1x P-30W	1995	2008
Brasil	1x P-10W	1985	2010
Mexico	2x P-20W	1993	2012
Malaysia	1x P-10W	1997	2016



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Hardware

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Supervision

Interface, screens will be same as your actual machine. Functions added: connectivity, quality objects, files access.

Monitoring

All the important data shown on the same screen:

- · Pouring process and status
- Molding line information
- Pouring parameters modifying
- Warning and alarm messages



Status

Detailed information about:

- System
- Machine
- Axes



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Quality monitoring

- Pouring results*
- Pouring parameters*
- Log file*

*Available on HMI screens and safely stored on ASCII file format accessible thru Ethernet network

Quality management

- Pouring results*
- Pouring parameters*
- Log file*

*Available on HMI screens and safely stored on ASCII file format accessible thru Ethernet network



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NPCU - Numerical Pouring Control Unit

The actual pouring control unit (PCU) has been on the market for many years and spare parts are no longer available, increasing the risks of costly production breakdowns. EASYsa has decided to develop a brand new system, the Numerical Pouring Control Unit (NPCU).

With basic features similar to the actual system and the combination of the latest technology and sophisticated algorithms, the NPCU is at the same time easy to use and increases significantly the control of the pouring process, resulting in an improved quality and efficiency.



Hardware

System based on standard industrial components.

- PLC with Ethernet and Profibus interfaces
- Ethernet connection allows data and parameters saving on the internal network
- Interface board for actual light probes

Supervision

More complete and user-friendly as the actual, improve the overview of the process and facilitate its optimization.

- Main page with all information including probes diagnostics, graphs and data for each poured molds
- Screen for probes adjustments
- Screen for pouring settings
- Pouring graphs for each mold
- Storing pouring results for each molds
- Alarms, log files
- Parameters adjustment and saving
- Maintenance and diagnostics tools

More functions in the future

Functions will be improved and added:

• Camera option: machine positioning corrections during pouring (X, Y axis)







